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(コンテンツ強化専門調査会プレゼンテーション用資料)

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ストラテジックパートナー デベロップメントマネージャー 佐藤陽一

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On major software projects, there are often many architects. Some architects are quite specialized in disciplines, such as databases and networks, and usually work as part of a team, but for now we will write as if there were only one.

What Constitutes a Software Architecture?

It is a mistake to think of "an architecture" as if it were a simple entity

that could be described by a single document or drawing. Architects must make many design decisions. To be useful, these decisions must be documented so that they can be reviewed, discussed, modified, and approved, and then serve to constrain subsequent decision making and construction. For software systems, these design decisions are behavioral and structural.

External behavioral descriptions show how the product will interface with its users, other systems, and external devices, and should take the form of requirements. Structural descriptions show how the product is divided into parts and the relations between those parts. Internal behavioral descriptions are needed to describe the interfaces between components. Structural descriptions often show several distinct views of the same part because it is impossible to put all the information in one drawing or document in a meaningful way. A component in one view may be a part of a component in another.

Software architectures are often presented as layered hierarchies that tend to commingle several different structures in one diagram. In the 1970s Parnas pointed out that the term "hierarchy" had become a buzzword, and then precisely defined the term and gave several different examples of structures used for different purposes in the design of different systems (Parnas 1974). Describing the structures of an architecture as a set of *views*, each of which addresses different concerns, is now accepted as a standard architecture practice (Clements et al. 2003; IEEE 2000). We will use the word "architecture" to refer to a set of annotated diagrams and functional descriptions that specify the structures used to design and construct a

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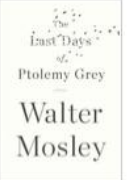
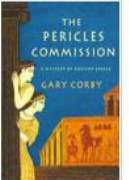
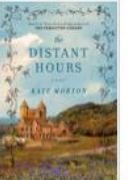

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